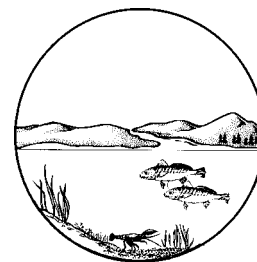


National Sediment Bioaccumulation Conference



September 11-13, 1996
Hyatt Regency
Bethesda, Maryland



FINAL AGENDA

Sponsored by:
Office of Water/Office of Science and Technology
Office of Research and Development

Wednesday, September 11

7:30-8:30 **Registration**

8:30-8:45 **Welcome and Introduction**
Dr. Elizabeth Southerland and
Dr. Thomas Armitage
Office of Science and Technology
U.S. Environmental Protection Agency

BIOACCUMULATION OVERVIEW AND APPROACHES

8:45-9:15 **Contaminated Sediments: State of the Science and Future Research Directions**
Dr. Gilman D. Veith, Associate Director for Ecology
National Health and Environmental Effects Research Laboratory
Office of Research and Development
U.S. Environmental Protection Agency

Field and Laboratory Methods for Measuring Bioaccumulation

Moderator: Dr. Peter Chapman
EVS Environmental Consultants, Ltd.

9:15-9:40 **Methods for Assessing Sediment Bioaccumulation in Marine/Estuarine Benthic Organisms**
Dr. Henry Lee
Office of Research and Development
U.S. Environmental Protection Agency

9:40-10:05 **Methods for Assessing Bioaccumulation of Sediment-Associated Contaminants with Freshwater Invertebrates**
Dr. Christopher Ingersoll
Environmental Contaminants Research Center
U.S. Geological Survey

10:05-10:20 Break

10:20-10:45 **Kinetic Models for Assessing Bioaccumulation**
Dr. Peter Landrum
Great Lakes Environmental Research Laboratory
National Oceanic and Atmospheric Administration

10:45-11:15 **Discussion/Question and Answer Session**

11:15-12:30 Lunch

Interpretation and Applications of Bioaccumulation Results

Moderator: Dr. Richard Pruell
Office of Research and Development
U.S. Environmental Protection Agency

12:30-12:55 **Reference Sediment Approach for Determining Sediment Contamination**
Mr. Norman Rubinstein
Office of Research and Development
U.S. Environmental Protection Agency

12:55-1:20 **Development of Tissue Residue Threshold Values**
Dr. David Mount
Office of Research and Development
U.S. Environmental Protection Agency

1:20-1:45 **Use of Tissue Residue Data in Exposure and Effects Assessments for Aquatic Organisms**
Mr. L. Jay Field
National Ocean Service
National Oceanic and Atmospheric Administration



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Final Agenda

1:45-2:10 ***Comments on the Significance and Use of Tissue Residues in Sediment Toxicology and Risk Assessment***
Dr. Lynn McCarty
LS McCarty Scientific Research & Consulting

2:10-2:35 ***Quantification of Ecological Risks to Aquatic Biota from Bioaccumulated Chemicals***
Mr. Burt Shephard
URS Greiner, Inc.

2:35-3:05 ***Discussion/Question and Answer Session***

3:05-3:25 Break

Modeling Bioavailability of Sediment Contaminants

Moderator: Mr. Nelson Thomas
Office of Research and Development
U.S. Environmental Protection Agency

3:25-3:50 ***Equilibrium Partitioning and Organic Carbon Normalization***
Dr. Dominic Di Toro
HydroQual, Inc.

3:50-4:15 ***Estimating Bioaccumulation Potential in Dredged Sediment Regulation***
Dr. Victor McFarland
Waterways Experiment Station
U.S. Army Corps of Engineers

4:15-4:40 ***Development of Bioaccumulation Factors for Protection of Fish and Wildlife in the Great Lakes***
Dr. Philip Cook
Office of Research and Development
U.S. Environmental Protection Agency

4:40-5:00 ***From Modeling to Criteria: Integrated Approach to Criteria Development***
Ms. Mary Reiley
Office of Science and Technology
U.S. Environmental Protection Agency

5:00-5:30 ***Discussion/Question and Answer Session***

6:00-7:00 ***Welcome Reception***

Thursday, September 12

Food Chain Models and Bioenergetics

Moderator: Dr. Lawrence Burkhard
Office of Research and Development
U.S. Environmental Protection Agency

8:30-9:00 ***Food Chain Models for Predicting Bioaccumulation***
Dr. Frank Gobas
Simon Fraser University

9:00-9:30 ***Use of Food Web Models to Evaluate Bioaccumulation Data***
Dr. John Connolly
HydroQual, Inc.

9:30-10:00 ***Bioaccumulation Modeling of PCBs in the Hudson Estuary: A Review and Update***
Dr. Robert Thomann
Manhattan College

10:00-10:30 ***Discussion/Question and Answer Session***

10:30-10:45 Break

BIOACCUMULATION AND RISK ASSESSMENT

10:45-11:15 ***Risk Assessment Overview***
Dr. Dorothy Patton
Office of Research and Development
U.S. Environmental Protection Agency

Human Health-Based Risk Assessment

Moderator: Dr. Marc Tuchman
Great Lakes National Program Office
U.S. Environmental Protection Agency

11:15-11:45 ***Methodology for Assessing Human Health-Based Risks***
Dr. Judy Crane
Minnesota Pollution Control Agency

11:45-1:00 Lunch

Final Agenda

Case Studies:

- 1:00-1:45 **Bioaccumulation Models and Applications: Setting Sediment Cleanup Goals in the Great Lakes**
Ms. Amy Pelka
Region 5
U.S. Environmental Protection Agency
- 1:45-2:15 **Use of Human Health- and Ecological-Based Goals in Developing a Whole River Sediment Strategy: Fox River, WI**
Mr. Robert Paulson
Wisconsin Department of Natural Resources
- 2:15-2:45 **Development of Health-Based Sediment Criteria for Puget Sound**
Ms. Laura Weiss
Washington Department of Ecology
- 2:45-3:15 **Development of Bioaccumulation Guidance for Dredged Material Evaluations in EPA Region 2**
Mr. Alex Lechich
Region 2
U.S. Environmental Protection Agency
- 3:15-3:45 **Discussion/Question and Answer Session**
- 3:45-4:00 Break

Ecological-Based Risk Assessment

Moderator: Dr. James Andreasen
Office of Research and Development
U.S. Environmental Protection Agency

- 4:00-4:30 **Use of Bioaccumulation Data in Aquatic Life Risk Assessment**
Dr. Wayne Munns
Office of Research and Development
U.S. Environmental Protection Agency
- 4:30-5:00 **Wildlife Risk Assessment**
Dr. David Charters
Office of Solid Waste and Emergency Response
U.S. Environmental Protection Agency
- 5:00-5:30 **Discussion/Question and Answer Session**

Friday, September 13

BIOACCUMULATION RESULTS AND DECISION-MAKING

Integrating Bioaccumulation Results into EPA's Decision-Making Process

Moderator: Dr. Elizabeth Southerland
Office of Science and Technology
U.S. Environmental Protection Agency

8:30-8:40 Opening Remarks

Dr. Elizabeth Southerland
Office of Science and Technology
U.S. Environmental Protection Agency

8:40-9:00 Bioaccumulation Testing and Interpretation for the Purpose of Sediment Quality Assessment: Status and Needs

Mr. Michael Kravitz
Office of Science and Technology
U.S. Environmental Protection Agency

9:00-10:30 Panel Presentations

- Superfund Program
Dr. Lawrence Zaragoza
- NPDES Program
Mr. James Pendergast
- Office of Pollution Prevention and Toxics
Mr. Thomas Murray
Dr. Maurice Zeeman
- Dredged Material Program
Mr. Craig Vogt
Mr. Mario Del Vicario

10:30-10:45 Break

10:45-12:00 Panel Discussion

- Common Elements Among Programs
- Barriers to Decision-Making
- Recommendations

12:00-12:30 **Future Needs/Conference Wrap Up**



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